

# DATASHEET

## PALIGHT FOAM PVC

Palight is a lightweight, versatile, flexible, and durable foamed PVC sheet that is widely used in sign and display, as well as construction applications.

### Applications

- Advertising
- Sign Making
- Wall Cladding
- Model Making
- Exhibition Displays
- Interior Decoration

### Availability

- Colour – Range of colours available
- Size: 2440x1220mm and 3050x1220mm sheets
- Regularly produced in 3mm thickness

### Typical Properties

| General Properties               | Method      | Unit              | Test Result       |
|----------------------------------|-------------|-------------------|-------------------|
| <b>Physical Properties</b>       |             |                   |                   |
| Relative Density                 | In-House    | g/cm <sup>3</sup> | 0.57              |
| Water Absorption                 | ASTM S-570  | %                 | 0.5 – 0.8         |
| <b>Mechanical Properties</b>     |             |                   |                   |
| Tensile Strength at Yield        | ASTM D-638  | MPa               | 16                |
| Elongation at Break              | ASTM D-638  | %                 | 30                |
| Flexural Modulus                 | ASTM D-790  | MPa               | 900               |
| Flexural Strength at Yield       | ASTM D-790  | MPa               | 28                |
| Charpy Impact Strength           |             | J/m               | 29                |
| Shore D Hardness                 |             | value             | N/A               |
| <b>Thermal Properties</b>        |             |                   |                   |
| Service Temperature              | In-House    | °C                | -10 to 55         |
| Heat Distortion Temperature      | In-House    | °C                | 63                |
| Vicat Softening Temperature      | ASTM D-648  | °C                | 75                |
| Coefficient of Thermal Expansion | ASTM D-1525 | cm/cm°C           | 6.70              |
| <b>Electrical Properties</b>     |             |                   |                   |
| Dielectric Strength              | ASTM D-257  | Ω                 | 5x10 <sup>1</sup> |
| Surface Resistivity              | ASTM D-257  | Ω -cm             | 2x10 <sup>1</sup> |

## Flammability

| Standard      | Classification |
|---------------|----------------|
| EN13501       | B, s1, d0      |
| BS 476 Part 7 | Class 1        |
| UL 94         | V-0            |
| NSP 92501,5   | M-1, M-2       |
| DIN 4102      | B-2            |